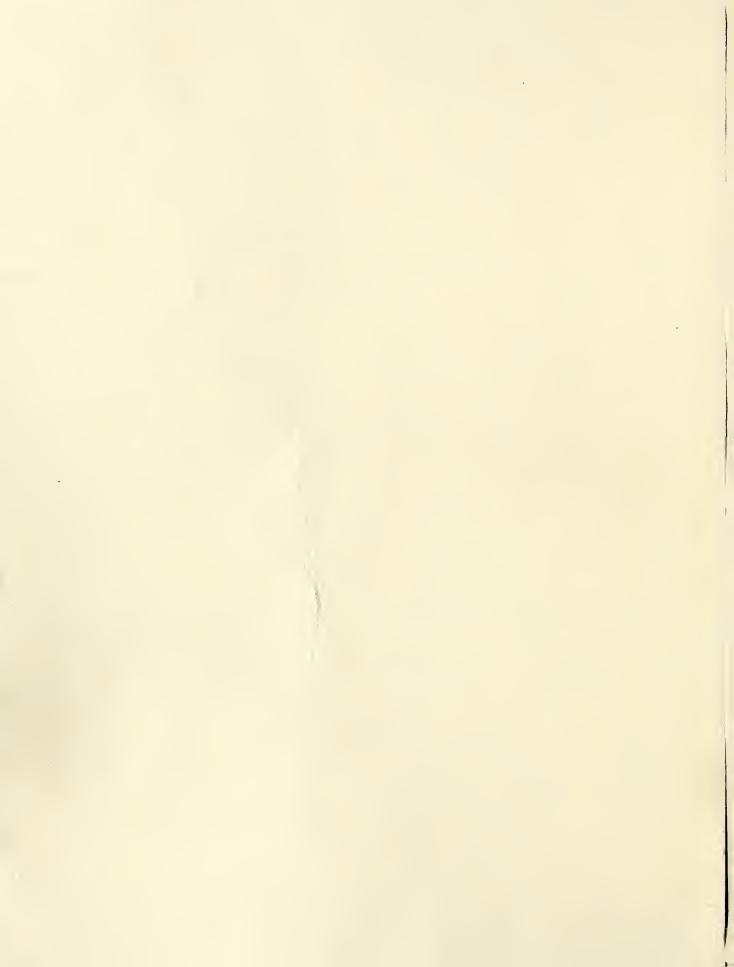
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# UNITED STATES DEPARTMENT OF AGRICULTURE Agricultural Research Service

Publications and Articles from Home Economics Research February-March 1956



### Department Publications

Single copies of unstarred publications are available free from the Office of Information, U. S. Department of Agriculture, Washington 25, D. C. Starred (\*) publications may be purchased from the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C. Please send request and remittance directly to the Government Printing Office.

- Boneless beef: Raw, cooked, and served...results of analyses for moisture, protein, fat, and ash. E. W. Toepfer, C. S. Pritchett and E. M. Hewston. Tech. Bul. 1137, 33 pp. Dec. 1955. (Copies received February 21, 1956.) 15 cents.
  - Home freezers--their selection and use. E. C McCracken. HG-47, 22 pp., illus. Feb. 1956. (Rev. of and supersedes MP-687.)
- \* Storage units for household linens--design data for farmhouse planning. For use by architects and others designing storage spaces. A. M. Woolrich and J. D. Herrington. AIB-150, 14 pp. Mar. 1956. 15 cents.
  - Articles published in professional journals (PLEASE CONSULT JOURNALS; U. S. DEPARIMENT OF AGRICULTURE CANNOT FURNISH REPRINTS OF ARTICLES.)
  - The quantitative amino acid requirements of young women. I. Threonine. R. M. Leverton, M. R. Gram, M. Chaloupka, E. Brodovsky, and A. Mitchell. Jour. Nutr. 58(1): 59-81. Jan. 1956. (Contract research with Univ. of Nebr., sponsored by Human Nutr. Res. Br.)
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Status report of publications on HE--February-March 1956

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- Nutritional status of adolescent Idaho children. II. Food habits. K. P. Warnick, S. V. Bring and E. Woods. Amer. Dietet. Assoc. Jour. 31(11): 1143-1146. Nov. 1955. (West. Region. Proj., Human Nutr. Res. Br. cooperating.)
- Dental studies with Montana college freshman and adolescents. L. M. Odland. Amer. Assoc. of Pub. Health Dentists 16(1): 6-8. Feb. 1956. (West. Region. Proj., Human Nutr. Res. Br. cooperating.)
- The San Mateo study of the nutritional status of the aging. A. F. Morgan. California's Health 13(9): 65-72. 1955. (West. Region. Proj., Human Nutr. Res. Br. cooperating.)
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- The use of Pandanus fruit as food in Micronesia. C. D. Miller, M. Murai and F. Pen. Pacific Sci. 10(1): 3-16. Jan. 1956. (Contract research with Univ. of Hawaii, sponsored by Human Nutr. Res. Br.)
- Consumption of fresh and evaporated milk and dry milk solids. C. Van Syckle. Amer. Dietet. Assoc. Jour. 31(12): 1228-1231. Dec. 1955. (Contract research with Wash. Agr. Expt. Sta., sponsored by Home Econ. Res. Br.)
- Functional properties of shell eggs affected by storage. R. Jordan. (Abstract.) Jour. Home Econ. 48(2): 100. Feb. 1956. (Contract research with Purdue Expt. Sta., sponsored by Human Nutr. Res. Br.)
- The protective effect of glycine against the inhibition of ureas€ by a quaternary germicide. M. T. Goldsmith. Jour. Pediat. 4(4): 473-476. Apr. 1956.
- Human energy expended in using built-in ovens at different elevations. E. C McCracken and M. Richardson. Stove and Appl. Builder 21(2): 36-39, illus. Feb. 1956.

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Publications and Articles from Home Economics Research April - June 1956



## Department Publications

The publications listed below may be purchased from the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C. Please send request and remittance directly to the Government Printing Office; the U. S. Department of Agriculture is not permitted to sell publications.

- Household practices in the use of foods, three cities 1953. C. LeBovit and F. Clark. AIB-146, 90 pp. Illus. Apr. 1956. Price 50 cents.
- French-frying quality of potatoes as influenced by cooking methods, storage conditions, and specific gravity of the tubers. M. E. Kirkpatrick, P. H. Heinze, C. C. Craft, B. M. Mountjoy, and C. E. Falatko. Tech. Bul. 1142, 46 pp. Mar. 1956.

  Price 20 cents.
- Space requirements for home food preservation. M. S. Howard and G. K. Tayloe. Tech. Bul. 1143, 37 pp. Illus. Apr. 1956. Price 15 cents.
- Properties and serviceability of selected household and clothing fabrics. (Bibliography and review of research findings, 1928-1951.) H. M. Fletcher and S. H. Roberts. AIB-147, 126 pp. Illus. May 1956. Price 60 cents.
- Family clothing inventories and purchases...with an analysis to show factors affecting consumption. M. L. Brew, R. R. O'Leary and L. C. Dean. AIB-148, 175 pp. Apr. 1956. Price \$1.00.
- Articles published in professional journals (PLEASE CONSULT JOURNALS; U. S. Department cannot provide reprints of articles.)
- Use and purchase of eggs among city families. C. Van Syckle. Jour. Home Econ. 48(4): 276-277. Apr. 1956. (Contract research with Wash. Agr. Expt. Sta., sponsored by Home Econ. Res. Br.)
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- The quantitative amino acid requirements of young women. V. Leucine. R. M. Leverton, J. Ellison, N. Johnson, J. Pazur, F. Schmidt, and D. Geschwender. Jour. Nutr. 58(3): 355-365. Illus. Mar. 1956. (Contract research with Univ. of Nebr., sponsored by Human Nutr. Res. Br.)

Publications and articles from Home Economics Research -- April-June 1956

#### Articles--Continued

- Amino acid requirements of young women based on nitrogen balance data. I. The sulfur-containing amino acids. M. E. Swendseid, I. Williams and M. S. Dunn. Jour. Nutr. 58(4): 495-505. Apr. 1956. (Contract research with Univ. of Calif., sponsored by Human Nutr. Res. Br.)
- Amino acid requirements of young women based on nitrogen balance data. II. Studies of isoleucine and on minimun amounts of the eight essential amino acids fed simultaneously. M. E. Swendseid and M. S. Dunn. Jour. Nutr. 58(4): 507-517. Apr. 1956. (Contract research with Univ. of Calif., sponsored by Human Nutr. Res. Br.)
- Diet and serum cholesterol in man: Lack of effect of dietary cholesterol. A. Keys, J. T. Anderson, O. Mickelsen, S. F. Adelson, and F. Fidanza. Jour. Nutr. 59(1): 39-56. May 1956. (Univ. of Minn., Laboratory of Physiological Hygiene, Agr. Res. Serv., cooperating.)
- Effect of intake of linoleic acid on unsaturated fatty acids of serum of infants. (Abstract.) H. F. Wiese, A. E. Hansen, D. J. D. Adam, and M. A. Baughan. Fed. Proc. 15(1, pt. 1): 1884. Mar. 1956. (Contract research with Univ. of Tex., Med. Br., sponsored by Human Nutr. Res. Br.)
- Bone density relationships in adolescence. (Abstract.) L. M. Odland. Fed. Proc. 15(1, pt. 1): 1848. Mar. 1956. (Mont. St. Col., Human Nutr. Res. Br. cooperating.)
- Nutritional status of selected adolescent children. I. Description of subjects and dietary findings. M. McG. Hard and N. C. Esselbaugh. Amer. Jour. Clinical Nutr. 4(3): 261-268. May-June 1956. (West. Region. Proj., Human Nutr. Res. Br. cooperating.)
- Effect of moist and dry heat cooking on vitamin retention in meat from beef animals of different levels of fleshing. S. Cover and W. H. Smith, Jr. Food Res. 21(2): 209-216. 1956. (Contract research with Texas Agr. Expt. Sta., sponsored by Human Nutr. Res. Br.)
- The effect of quaternary treatment under varied ratios of weight-volume-concentration on the bacteriostatic property of fabrics. M. T. Goldsmith, M. A. Latlief, J. L. Friedl and L. S. Stuart. Appl. Microbiol. 4(2): 91-94. Mar. 1956.
- The effect of amino acids on the inhibition of Jack bean urease by a quaternary germicide. (Abstract.) M. T. Goldsmith, F. M. Richardson, and M. A. Latlief. Bacteriol. Proc.: 101. 1956.

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#### Bulletins

**CURRENT SERIAL RECORDS** 

- Household practices in the use of foods, three cities 1953. C. LeBovit and F. Clark. AIB-146, 90 pp. Illus. Apr. 1956.
- Essentials of an adequate diet...facts for nutrition programs. L. Page and E. F. Phipard. ARS 62-4, 16 pp. Illus. June 1956.
- Nutrition Committee News. Mar, -Apr. 1956. 8 pp; May-June 1956. 4 pp.
- Nutrition education and school lunch activities of agencies represented on the Interagency Committee on Nutrition Education and School Lunch. ARS 62-3, 23 pp. May 1956.
- Selected references on nutrition and school lunch. Prepared by the Interagency Comon Nutr. Educ. and Sch. Lunch. Rev. Jan. 1956.
- Effect of cold storage and method of cooking on commercial grade cow beef. P. Paul, M. Bean and L. J. Bratzler. Mich. St. Tech. Bul. 256, 35 pp. Illus. May 1956. (Contract research with Mich. St. Col., sponsored by Human Nutr. Res. Br.)
- Study of three cuts of lower and higher grade beef, unfrozen and frozen, using two methods of thawing and two methods of braising. F. Fenton, I. T. Flight, D. S. Robson, K. C. Beamer, and J. S. How. Expt. Sta. Memoir 341, 68 pp. Mar. 1956. (Contract research with Cornell Univ., sponsored by Human Nutr. Res. Br.)
- French-frying quality of potatoes as influenced by cooking methods, storage conditions and specific gravity of the tubers. M. E. Kirkpatrick, P. H. Heinze, C. C. Craft, B. M. Mountjoy, and C. E. Falatko. Tech. Bul. 1142, 146 pp. Mar. 1956. (In coop. with Biological Sci. Br.)
- Get more good from milk. ARS 61-3. 15 pp. May 1956. (Agr. Market. Serv., Human Nutr. Res. Br. cooperating.) Rev. of unnumbered mimeo., May 1954.
- Cornmeal in family meals. AMS-111. Apr. 1956. (Agr. Market. Serv., Human Nutr. Res. Br. cooperating.)
- Heights and weights of white boys and girls in the U.S. M. Hathaway. HN 7(W-2), 165 pp. Apr. 1956. Preliminary draft processed for review.
- Dietary studies of Montana fifteen-year-olds and of Montana college freshmen. L. M. Odland, L. Page and L. P. Guild. Mont. St. Col. Tech. Bul. 518, 59 pp. Apr. 1956. (West. Region. Proj., Human Nutr. Res. Br. cooperating.)
- Cooperative nutritional status studies in the Western region. I. Nutrient intake. E. B. Wilcox, H. L. Gillum and M. M. Hard. West. Region. Bul. 383, 44 pp. Illus. 1956. (West. Region. Proj., Human Nutr. Res. Br. cooperating.)

Status report of publications on HE--Apr.-June 1956 Published materials--Continued

#### Bulletins--Continued

- Space requirements for home food preservation. M. S. Howard and G. K. Tayloe. Tech. Bul. 1143, 37 pp. Illus. Apr. 1956.
- Properties and serviceability of selected household and clothing fabrics. (Bibliography and review of research findings, 1928-1951.) H. M. Fletcher and S. H. Roberts. AIB-147, 126 pp. Illus. May 1956.
- Family clothing inventories and purchases...with an analysis to show factors affecting consumption. M. L. Brew, R. R. O'Leary and L. C. Dean. AIB-148, 175 pp. Apr. 1956.

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- Use and purchase of eggs among city families. C. Van Syckle. Jour. Home Econ. 48(4): 276-277. Apr. 1956. (Contract research with Wash. Agr. Expt. Sta., sponsored by Home Econ. Res. Br.)
- Can the raw-pack way. G. Gilpin. Farm Jour. 122, 124. June 1956.
- The quantitative amino acid requirements of young women. IV. Phenylalanine, with and without tyrosine. R. M. Leverton, N. Johnson, J. Ellison, M. Skellenger, D. Geschwender and F. Schmidt. Jour. Nutr. 58(3): 341-353, Mar. 1956. (Contract research with Univ. of Nebr., sponsored by Human Nutr. Res. Br.)
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- Effect of intake of linoleic acid on unsaturated fatty acids of serum of infants. (Abstract.) H. F. Wiese, A. E. Hansen, D. J. D. Adam, and M. A. Baughan. Fed. Proc. 15(1, pt. 1): 1884. Mar. 1956. Paper presented at Amer. Inst. of Nutr., Apr. 1956. (Contract research with Univ. of Tex., Med. Br., sponsored by Human Nutr. Res. Br.)
- Bone density relationships in adolescence. (Abstract.) L. M. Odland. Fed. Proc. 15(1, pt. 1): 1848. Mar. 1956. Paper presented at Amer. Inst. of Nutr., Apr. 1956. (Mont. St. Col., Human Nutr. Res. Br. cooperating.)

Status report of publications on HE--Apr.June 1956 Published materials--Continued

#### Articles -- Continued

- Nutritional status of selected adolescent children. I. Description of subjects and dietary findings. M. McG. Hard and N. C. Esselbaugh. Amer. Jour. Clinical Nutr. 4(3): 261-268. May-June 1956. (West. Region. Proj., Human Nutr. Research Br. cooperating.)
- Effect of moist and dry heat cooking on vitamin retention in meat from beef animals of different levels of fleshing. S. Cover and W. H. Smith, Jr. Food Res. 21(2): 209-216. 1956. (Contract research with Texas Agr. Expt. Sta., sponsored by Human Nutr. Res. Br.)
- The effect of quaternary treatment under varied ratios of weight-volume-concentration on the bacteriostatic property of fabrics. M. T. Goldsmith, M. A. Latlief, J. L. Friedl and L. S. Stuart. Appl. Microbiol. 4(2): 91-94. Mar. 1956.
- The effect of amino acids on the inhibition of Jack bean urease by a quaternary germicide. (Abstract.) M. T. Goldsmith, F. M. Richardson, and M. A. Latlief. Bacteriol. Proc.: 101. 1956. (Paper presented at Soc. of Amer. Bacteriol., Houston, Texas, May 2, 1956.)

#### Correspondence Aids

- Suggestions for keeping food costs low. HHE-Correspondence Aid-2. May 9, 1956. (Processed.)
- A partial list of references on nutrition. HHE-Correspondence Aid-3. May 11, 1956. (Processed.)
- Checklist for answering correspondence. HHE-Correspondence Aid-5. May 23, 1956. (Processed.)
- Selection of stain removers safe for fabrics. Correspondence Aid 63-3. Apr. 1956. (Processed.)
- Clothing exhibits. Correspondence Aid 63-4. Apr. 1956. Revised. (Processed.)
- Plastics and moth preventives. Correspondence Aid 63-5. June 1956. (Processed.)
- The Beltsville energy-saving kitchen. Correspondence Aid 63-6. June 1956. (Processed.)

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### Bulletins

- Homemade jellies, jams, and preserves. HG. (Rev. of FB-1800.) To ARS May 17, 1956.
- Home canning of fruits and vegetables. HG. (Rev. of HG-8.) To OI Apr. 10, 1956.
- Potatoes in popular ways. HG. (Rev. of L-295.) To ARS Mar. 21, 1956.
- Cooking with dried whole egg. HG-50. (Rev. of HNHE-85.) To GPO June 13, 1956.
- Cooking quality and flavor of eggs as related to candled quality, storage conditions and other factors. E. Dawson, C. Miller and R. A. Redstrom. AIB. To OI Mar. 19,

Status report of publications on HE--Apr.-June 1956 In press or submitted for printing--Continued

#### Bulletins--Continued

- The relationship among the age of the animal, carcass grade, and extent of cooking with certain organoleptic, chemical, physical and microscopic characteristics of beef muscles. B. Lowe and J. Kastelic. To be published as Iowa Agr. Expt. Sta. Bul. (Contract research with Agr. Expt. Sta., Iowa St. Col., sponsored by Human Nutr. Res. Br.)
- Pantothenic acid in foods. E. G. Zook, M. M. MacArthur and E. W. Toepfer. AH-97. (Page proof ret. July 1956.)
- Food yields--summarized by different stages of preparation. R. K. Pecot and B. K. Watt. AH-102. To GPO June 13, 1956.
- Food expenditures, preservation, and home production by rural families in the North Central Region, 1951-52. M. Orshansky, E. C. Blake and M. A. Moss. AIB-113. Galley proof ret. June 6, 1956.
- Men's shirts: How to judge quality. C. L. Scott. HG. (Rev. of FB-1837.) To ARS June 1, 1956.
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- Quality of pressure-cooked potatoes. E. E. Hester and G. Bennett. (Contract research with Penna. St. Univ., sponsored by Human Nutr. Res. Br.) To Amer. Potato. Jour. Nov. 21, 1955.
- Permanent staining with iodine vapor. R. R. Little. To Stain Tech. May 2, 1956.
- Flavor of selected vegetables grown in soil used previously for insecticide-treated crops. G. L. Gilpin, A. B. Parks and H. Reynolds. To Jour. Agr. and Food Chem. May 10, 1956.
- The evaluation of processing times for raw-pack canning of some low acid vegetables at home. S. Cover, M. Shrode and H. Reynolds. (Tex. Agr. Expt. Sta., Human Nutr. Res. Br. cooperating.) Accepted Apr. 9, 1956 for publication in Food Res.
- Effect of penicillin on nitrogen balance and carcass composition. M. Womack, M. W. Marshall and J. L. Dupont. To Jour. Agr. and Food Chem. June 6, 1956.

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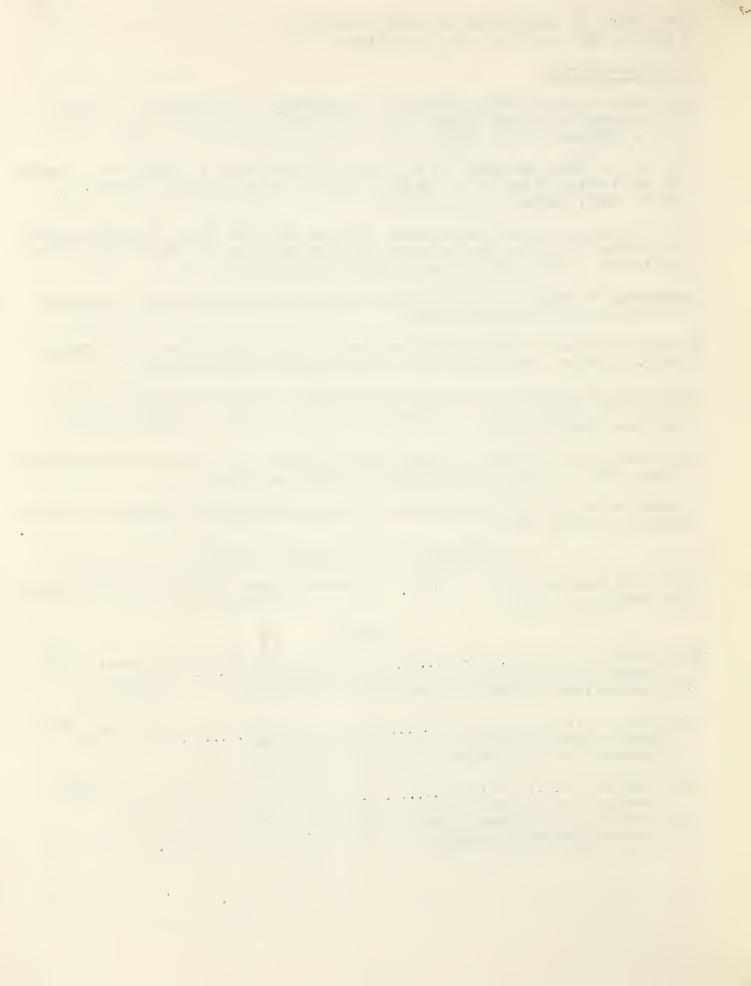
- Nutritional status and dietary habits of older people. E. Batchelder. Accepted for publication in Amer. Dietet. Assoc. Jour. (Paper presented at Amer. Dietet. Assoc. meeting, Oct. 19, 1955.)
- Foods for the upper age group and nutritional implications. E. Batchelder. Accepted for publication in Amer. Jour. of Pub. Health. (Paper presented at Amer. Pub. Health Assoc. meeting, Nov. 15, 1955.)
- Food expenditures in four institutions. F. Clark and E. B. Tate. (Contract research with Arthur D. Little, Inc., sponsored by Household Econ. Res. Br.) Accepted for publication in fall issue of Amer. Dietet. Assoc. Jour.
- Determining the relative economy of home-produced and purchased milk. E. S. Cofer. To Jour. of Farm Econ. May 14, 1956.
- Estimating the service life of household goods by actuarial methods. J. L. Pennock and C. M. Jaeger. To Jour. of Amer. Statist. Assoc. Mar. 27, 1956.
- Development and application of methods for evaluating cooking and eating quality of rice. O. M. Batcher, K. F. Helmintoller and E. H. Dawson. To Jour. Agr. and Food Chem. June 21, 1956.
- The geometry and properties of two-bar tricot fabrics. H. M. Fletcher and H. Roberts. Accepted Mar. 9, 1956 for publication in Textile Res. Jour.
- A comparison of pin and thread basting in clothing construction. M. Smith. To Jour. Home Econ. May 29, 1956.

#### PAPERS PRESENTED AT PROFESSIONAL MEETING

Family food spending today. F. Clark. Presented at Amer. Assoc. of Cereal Chemists, New York, May 24, 1956.

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- \*Food expenditures, preservation and home production by rural families in the North Central Region, 1951-52. M. Orshansky, E. C. Blake and M. A. Moss. AIB-113, 86 pp., illus. Aug. 1956. Price 50 cents.
- Food expenditures of households in the United States. Household Food Consumption, 1955; Preliminary Report, Aug. 1956. (In coop. with Agr. Marketing Service.)
- \*Some effects of inseciticde spray accumulations in soil on crop plants. A. C. Foster, V. R. Boswell, R. D. Chisholm, R. H. Carter, G. L. Gilpin, B. B. Pepper, W. S. Anderson and M. Gieger. Tech. Bul. 1149, 36 pp. Aug. 1956. (In coop. with Horticultural Crops Res. Br., Entomology Res. Br., and New Jersey and Miss. Agr. Expt. Stas.) Price 15 cents.

Detergents for home laundering. M. S. Furry. HG-49, 8 pp., illus. July 1956.



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Publications and Articles from Home Economics Research September-October 1956

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A bibliography on fatty acids in foods and other commodities 1929-1949. Human Nutr. Res. Br. HN(W1), 104 pp. Sept. 1956. (Processed.) (Supported in part by a contract with Hormel Institute, sponsored by Human Nutr. Res. Br.)

Recipes featuring cheese. ARS 61-4, 8 pp., illus. Sept. 1956.

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How to tailor a woman's suit. M. Smith. HG-20, 25 pp., illus. Slightly revised Oct. 1956.

Farmhouses for southern States. MP-724, 24 pp., illus. Sept. 1956. (Agr. Res. Serv., Fed. Ext. Serv., and Agr. and Home Econ. Colleges in Southern States cooperating.)

Articles published in professional journals (PLEASE CONSULT JOURNALS; U. S. Department cannot provide copies of reprints of articles.)

Foods for the upper age group and nutritional implications. E. Batchelder. Amer. Jour. of Pub. Health 46(10): 1329-1335. Oct. 1956.

Anthropometry and nutritional status of adult women. M. A. Ohlson, A. Biester, W. D. Brewer, B. E. Hawthorne, and M. B. Hutchinson. Human Biology 28(2): 189-202, illus. May 1956. (No. Cent. Region. Proj., Human Nutr. Res. Br. cooperating.)

Serum vitamin C of Iowa school children and its relationship to diet and age. C. Roderuck, C. Pudelkewicz, E. H. Jebe and E. S. Eppright. Jour. Nutr. 59(3): 309-318. July 1956. (No. Cent. Region. Proj., Human Nutr. Res. Br. cooperating.)

Clinical and biochemical studies of Montana adolescents. L. M. Odland and R. J. Ostle. Amer. Dietet. Assoc. Jour. 32(9): 823-828. Sept. 1956. (West. Region. Proj., Human Nutr. Res. Br. cooperating.)

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Permanent staining with icdine vapor. R. R. Little. Stain Technol. 1956.

Sept.

Publications and articles from Home Economics Research -- Sept-Oct. 1956

#### Articles -- Continued

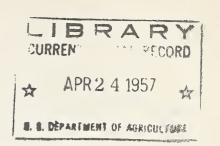
- The evaluation of processing times for raw-pack canning of some low acid vegetables at home. S. Cover, M. Shrode and H. Reynolds. Food Res. 21(4): 405-414, illus. 1956. (Tex. Agr. Expt. Sta., Human Nutr. Res. Br. cooperating.)
- Food expenditures in four institutions. F. Clark and E. B. Tate. Amer. Dietet. Assoc. Jour. 32(9): 816-820. Sept. 1956. (Contract research with Arthur D. Little, Inc., sponsored by Household Econ. Res. Br.)
- Here's a take-it-easy kitchen. M. Howard and G. Tayloe. Farm Jour. 156-158, illus. Oct. 1956; Town Jour. 60-62, illus. Oct. 1956.

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Publications and Articles from Home Economics Research November-December 1956



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Essentials of an adequate diet...facts for nutrition programs. L. Page and E. F. Phipard. AIB-160, 20 pp., illus. Nov. 1956. (Rev. of ARS 62-4).

Agricultural outlook charts. (Chartbook). 99 pp., illus. Nov. 1956. (Agr. Res. Serv., and Agr. Market. Serv. cooperating.)

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